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imagery analysis report

Organization of Soviet Army Aviation Helicopter Assets (S)



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ORGANIZATION OF SOVIET **ARMY AVIATION HELICOPTER ASSETS (S)**

INTRODUCTION

- 1. In the late 1970s, the Soviet Air and Ground Forces were reorganized. A key element of that reorganization was the re-creation of army aviation, which had technically been abolished in May 1942 when these assets were incorporated into tactical air armies. The reestablishment of army aviation provides combined-arms and tank army commanders and their subordinate division commands with organic air support to enhance their capabilities to conduct independent operations. (S/WN)
- 2. The Soviets reorganized their helicopter force by resubordinating many units from frontal aviation to army aviation. This report discusses the helicopter assets of Soviet army aviation, including their composition and probable function. The assessment of the major helicopter components of army aviation was based on an analysis of imagery and on collateral information on the composition, size, and deployment patterns of helicopter units. (S/WN)

DISCUSSION

3. Army aviation, elements of which are subordinate to the front, army, and division levels (Figure 1), provides commanders at all echelons in the front with air assets with sufficient flexibility to serve in a transport and resupply, a fire support, and a liaison function when necessary.2 (S/WN)

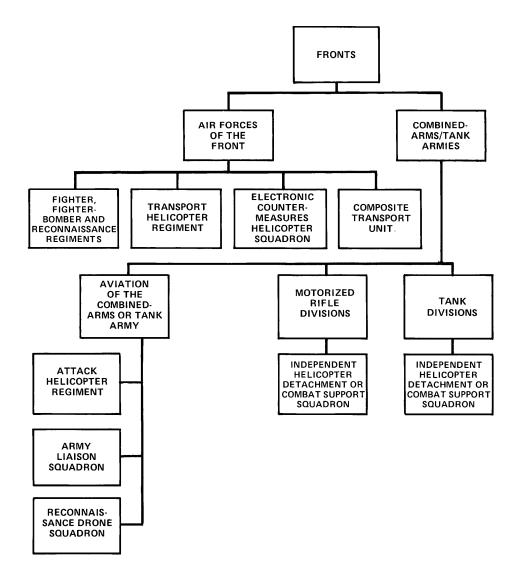


FIGURE 1. WARTIME COMMAND ORGANIZATION OF SOVIET FRONTAL FORCES

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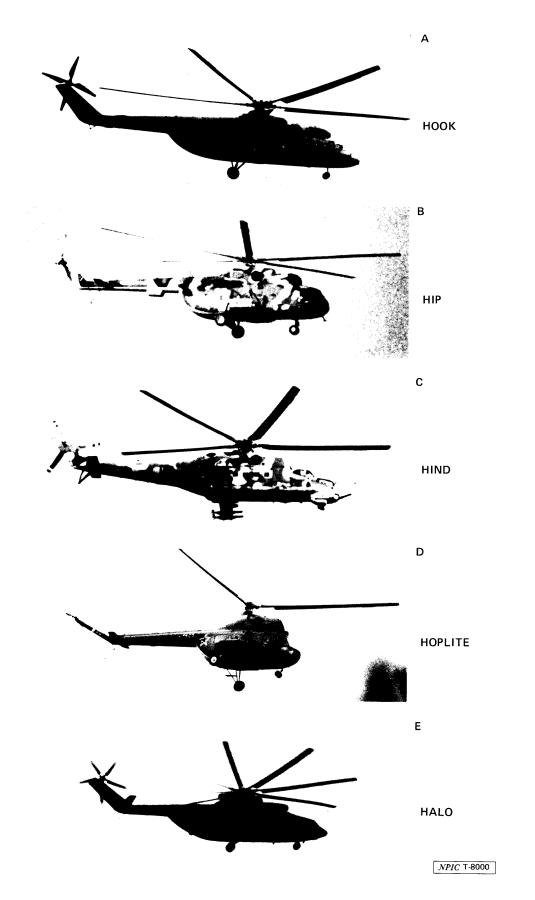


FIGURE 2. SOVIET ARMY AVIATION HELICOPTERS

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4. The helicopter portion of army aviation is composed of HOOK, HIP, HIND D/E, HOPLITE, and the recently produced HALO A helicopters (Figure 2). In addition, DR-3 reconnaissance drone squadrons are associated with army aviation, and the FROGFOOT A (Figure 3), the new Soviet ground-attack aircraft now in service in Afghanistan and operationally deployed to Chervono-Glinskoye Airfield USSR, may be introduced into the army aviation inventory.3 The FROGFOOT A, a twin-jet, single-

seat, subsonic aircraft which is similar to the US Fairchild A-10 Thunderbolt II, is apparently designed to provide direct aerial fire support for tank and motorized rifle maneuver forces. (S/WN/NOFORN)

5. Helicopters are deployed in detachment, squadron, and regimental strength. Although directly subordinate to the front, combined-arms/tank army, or division commanders, helicopter assets are manned, maintained, and supported by the Soviet Air Force. 4 (S/WN)

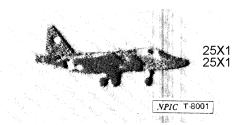


FIGURE 3. FROGFOOT A GROUND-ATTACK

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*Fronts are higher-level, operational field forces which may be assigned operational or, in some cases, strategic missions. Fronts are supported by, and may have in their composition, elements from all branches of the armed forces. Fronts will be formed in wartime by military districts and will operate under the control of the Supreme High Command (VGK) or a high command of a theater of military operations. (S/NOFORN

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FIGURE 6. HIP J HELICOPTER FIGURE 7. HIP K HELICOPTER

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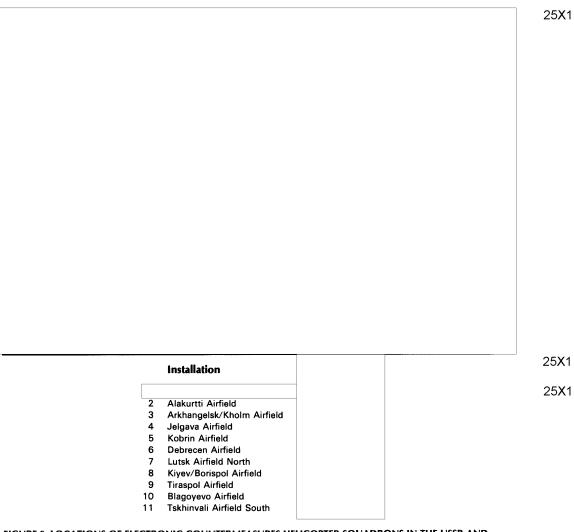


FIGURE 9. LOCATIONS OF ELECTRONIC COUNTERMEASURES HELICOPTER SQUADRONS IN THE USSR AND EASTERN EUROPE

8. The front commander may also have a composite transport unit (Figure 10) under his control. These units are unique in that they are composed of both fixed- and rotary-wing aircraft. The composite transport unit comprises a general-purpose and a special-purpose segment. The general-purpose segment consists of standard HIP, HOOK, and HOPLITE helicopters and CUB, COKE, and CURL aircraft. The primary function of this segment is liaison, which includes transportation of VIPs, logistical support, reconnaissance, medical evacuation, and administrative support. The primary function of the special-purpose segment is command and control. This segment may be equipped with either COOT As, special-purpose (SP) CATs, SP CURLs, HOOK Bs, HOOK Cs and/or HIP Ds. Ten composite transport units in the USSR, four in Eastern Europe (Figure 11), and one at Kabul Airfield in Afghanistan (Figure 11) have been identified. These units are usually collocated with, or in close proximity to, the MD/Group of Forces headquarters that they support. The aircraft composition varies greatly among MDs because civil as well as military aircraft are usually present. (S/WN)

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		Army-Level Units			
		9. The commander of the army may have an attack helicopter regiment, a reconnaissance drone squadron, and an army liaison squadron under his control. The attack helicopter regiment (Figure 12), equipped with 20 to 25 HIPs and 35 to 40 HINDs, has a primary function of providing fire support to the army. In some instances, this regiment may be subordinate to the MD/Group of Forces or, in wartime, to a front-level or a lower-echelon commander. The HIPs can be equipped to carry as many as six 32-shot 57 mm rocket pods and either AT-2 SWATTER or AT-3 SAGGER antitank guided missiles. The HINDs can carry four rocket pods and either SWATTER or AT-5 SPIRAL antitank guided missiles and can also carry a small assortment of free-fall bombs. Twelve attack helicopter regiments in the USSR, one in Mongolia (Figure 13), seven in Eastern Europe (Figure 14), and one at Kunduz Airfield in Afghanistan have been identified.			

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have been identified. As of June 1982, another regiment may have been forming at Polotsk Airfield Northwest in the Belorussian MD, where one squadron of HINDs and one squadron of HIPs were present and helicopter hardstand construction has been underway. However, the continued presence of HALO As at Polotsk is unusual in that heavy-lift helicopters are not usually deployed with attack helicopter regiments. (S/WN)

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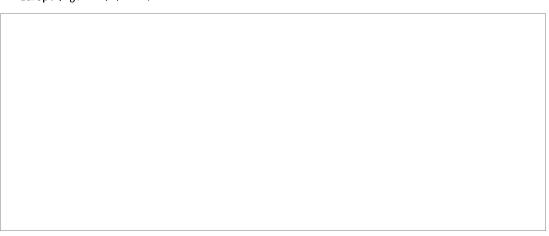
10. The DR-3 reconnaissance drone squadron (Figure 15) is composed of a mobile photographic processing laboratory, two to four DR-3 transporter-resupply vehicles, and two to four DR-3 transporter-rector-launchers. Fifteen to 20 DR-3 shipping containers are usually present. The primary function of the unit is to provide the army commander with a battlefield surveillance capability. The DR-3 is a low-altitude photoreconnaissance drone with a probable conventional load of cameras as well as a television surveillance system with a down link.² Although usually collocated with an attack helicopter regiment, the DR-3 reconnaissance drone squadron may be located elsewhere within the army area. Thirteen of these squadrons have been identified in the USSR, Mongolia, and Eastern Europe (Figure 16). (S/WN)

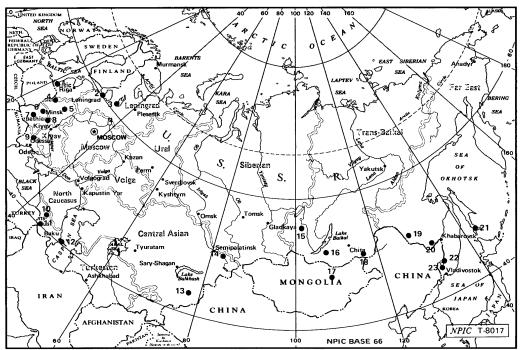
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11. The general-purpose support function is satisfied at the army level by an army liaison squadron (Figure 17). These squadrons are usually composed of two to four HOOKs, five to ten HIPs, and ten to 15 HOPLITEs and are usually near the army headquarters, although they may be housed elsewhere in the army area. One or two HOOKs are usually modified with blade antennas either atop the fuselage or on the rear of the tail boom to provide command and control support (Figure 18). Twenty-nine of these squadrons have been identified-23 are in the USSR and Mongolia (Figure 19), and six are in Eastern Europe (Figure 20). (S/WN)





Installation

- Kaliningrad/Lugovoye Heliport
- **Nurmalitsy Airfield**
- Leningrad/Kasimovo Airfield
- Grodno Airfield
- Lepel East Heliport
- **Dubno Airfield Northeast**
- **Brody Airfield North**
- Zhitomir Airfield Tiraspol Airfield
- Kutaisi Heliport 10
- Leninakan Airfield 11
- 12 Kyzylagadzh Airfield

Installation

- 13 Alma-Ata Airfield North
- 14 Semipalatinsk Airfield
- 15 Nizhneudinsk Airfield
- Ulan-Ude/Mukhino Airfield 16
- Ulan Baatar Airfield Southwest 17
- 18 Borzya Airfield
- 19 Belogorsk Airfield
- 20 Birobidzhan Airfield South
- 21 Novo-Aleksandrovsk Airfield
- 22 Vedenka Airfield
- 23 Ussuriysk Airfield Southeast

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FIGURE 19. LOCATIONS OF ARMY LIAISON SQUADRONS IN THE USSR AND MONGOLIA

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ivision-Level Units	
12. Ready/deployed tank and motorized rifle divisions are usually supported by an independen	nt
licopter detachment or a combat support squadron. An independent helicopter detachment usually	y
nsists of two to four HIPs and six to eight HOPLITEs (Figure 21). The primary function of this unit i ison, but one or two HIP Cs are usually modified to perform limited command and control functions	
/WN)	J.
13. A combat support equadron usually consists of four to six HIND D/E, four to six HIP, and four to	
HOPLITE helicopters (Figure 22). This type of unit is new to the Soviet inventory and is formed by	y
grading independent helicopter detachments to squadron strength by adding four to six HIND D/D two to four HIP helicopters. Previously, HINDs were almost exclusively deployed in regimenta	_
ength. The primary function of the combat support squadron is to provide the division commande the alimited fire support and transport capability. In addition, the liaison capability, formerly a function	

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of the independent helicopter detachment, is retained. (S/WN)

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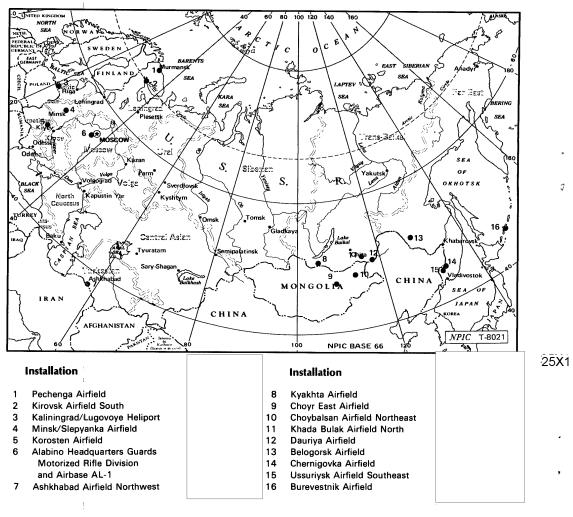


FIGURE 23. LOCATIONS OF COMBAT SUPPORT SQUADRONS IN THE USSR AND MONGOLIA

14. A combat support squadron was first observed at Belogorsk Airfield in 1977. At this same time, the adjacent tank regiments underwent combined-arms reorganizations. In retrospect, it appears that the squadron at Belogorsk and a squadron that was formed at Korosten Airfield in the Carpathian MD in 1978 were experimental units for the Soviets' two experimental divisions. Between 1980 and late 1983, 35 additional combat support squadrons were identified (Figures 23 and 24). (S/WN)

IMAGERY ANALYST'S COMMENTS

15. Since the reorganization of the Soviet Air and Ground Forces in the late 1970s, significant helicopter-related activity has been observed, with helicopter units formed, upgraded, and extensively redeployed. In addition, Soviet combined-arms exercises apparently involve more extensive and intensive use of helicopters for airlift and fire support than ever before. This activity emphasizes the significance the Soviets place on helicopters in combined-arms warfare. If this trend continues, we can expect to see attack helicopter regiments formed to support armies which are currently without their services. Additional combat support squadron deployments (primarily in ready/deployed divisions) and continued DR-3 and electronic countermeasures helicopter squadron deployments are also likely. (S/WN)



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		REFERENCES	25 X 1
			23/1
DOC	UMENTS		
		ilitary Encyclopedia, 1976, Vol 1 (UNCLASSIFIED)	4
2	2. DIA. DE	B-1340-20-83, USSR: <u>Employment of Helicop</u> ter Units in Combined Arms Operations (U), Apr 83 /NOFORN/WNINTEL	25X1
3		AIAPPR 49-83, USSR: Army Aviation and Combined Arms Formations (U), 13 May 83 (SECRET/	25/1
-	NOFOR	N*)	,
4	. CIA.	Organization of Soviet Combat Helicopter Regiments (U), 26 Jan 81 (TOP SECRET	25 X 1
-		ORD/NOFORN**) C. New Soviet Heliborne Jammer May be Dual Purpose System (C) , 092100Z Apr 82 (SECRET)	
	5. SSO FST 5. CIA	Sov M 83-10023CX, Development of Helicopter Squadrons in Soviet Ground Forces	25 X 1
,	Division	s, 28 Jan 83 (TOP SECRET CODEWORDS/ORCON/GAMMA/NOFORN	25 X 1
	*Extracted	information is classified CONFIDENTIAL/NOFORN.	
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